

Alumina sol, process for preparing the same, process for preparing alumina molding using the same, and alumina-based catalyst prepared thereby

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Abstract not available for CN1237146

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An object of the invention is to provide an alumina sol which contains a small amount of excess water inside the crystal lattice of boehmite, which has an extremely high concentration, high mechanical strength and properties particularly suitable for alumina carriers or hydrogenation catalysts, which can be fed to a forming process without subjecting it to a special concentration operation thereby to greatly contribute improvement of productivity, and which is advantageous from the viewpoint of energy conservation because any concentration step is unnecessary. The alumina sol of the invention comprises fibrous boehmite represented by the molecular formula Al₂O₃.1.05-1.30H₂O and having a weight mean diameter of 3 to 50 nm and a weight mean length of 30 to 3,000 nm, and the alumina sol is synthesized in an alumina concentration of 15 to 60 % by weight.

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